AMENDMENTS TO THE CLAIMS

In the set of claims within the Application, please amend claims 1-20 as hereinafter indicated.

- 1. (Currently Amended) A target selection system for a vehicle, said target selection system comprising:
- at least one object detection sensor <u>for</u> generating object detection signals associated with a plurality of objects;
- a feature target selection module <u>for</u> selecting secondary targets from said plurality of objects and associating said secondary targets with a plurality of respective features; and
- a primary target selection module <u>for</u> selecting primary targets from said secondary targets and associating each of said primary targets with a single respective concentrated feature.
- 2. (Currently Amended) A <u>target selection</u> system as in claim 1, wherein said single respective concentrated feature is selected from said plurality of respective features.
- 3. (Currently Amended) A <u>target selection</u> system as in claim 1, <u>said target selection system</u> further comprising:
- a path prediction module <u>for</u> determining at least one predicted path estimation of said vehicle; and
- a diagnostic module <u>for</u> determining positions of said plurality of objects in response to said at least one predicted path estimation;

wherein said feature target selection module selecting is operable to select said secondary targets in response to [[said]] the determined positions.

4. (Currently Amended) A <u>target selection</u> system as in claim 3, wherein said path prediction module <u>determines</u> is operable to <u>determine</u> a resultant predicted future path and an associated path confidence level in response to said at least one predicted path estimation and said diagnostic module, and <u>said diagnostic module</u> <u>determining</u> is operable to <u>determine</u> said positions in response to said predicted future path and said confidence level.

5. (Currently Amended) A <u>target selection</u> system as in claim 1, <u>said target</u> <u>selection system</u> further comprising:

an object tracker module <u>for</u> tracking said plurality of objects and generating an object data field[[,]];

wherein said feature target selection module selecting is operable to select said secondary targets in response to said object data field.

- 6. (Currently Amended) A <u>target selection</u> system as in claim 5, wherein said [[said]] object tracker module [[tags]] <u>is operable to tag</u> at least one of said plurality of objects as new and <u>tracks track</u> previously detected objects.
- 7. (Currently Amended) A <u>target selection</u> system as in claim 5, wherein said object data field eemprises includes:

an object list; and object associated characteristic data.

- 8. (Currently Amended) A <u>target selection</u> system as in claim 7, wherein said object associated characteristic data comprises <u>includes at least one type of</u> data selected from at <u>least one the list consisting</u> of range <u>data</u>, range-rate <u>data</u>, angle <u>data</u>, position <u>data</u>, shape data, size data, weight data, classification data, certainty indices, and confidence levels.
- 9. (Currently Amended) A <u>target selection</u> system as in claim 1, <u>said target selection system</u> further comprising:

a cue information request module <u>for</u> generating target information request signals[[,]]; <u>wherein</u> said at least one object detection sensor generating <u>is operable to generate</u> said object detection signals in response to said target information request signals.

10. (Currently Amended) A <u>target selection</u> system as in claim 9, wherein said cue information request module <u>generates</u> is operable to <u>generate</u> a first information request signal associated with a first primary target and <u>also</u> a second information request signal associated with a second primary target.

- 11. (Currently Amended) A <u>target selection</u> system as in claim 9, wherein said at least one object detection sensor adjusts <u>is operable to adjust</u> sensor settings in response to said target information request signals.
- 12. (Currently Amended) A <u>target selection</u> system as in claim 9, wherein said cue information request module <u>generates</u> is operable to <u>generate</u> a first information request signal associated with a first secondary target and <u>also</u> a second information request signal associated with a second secondary target.
- 13. (Currently Amended) A <u>target selection</u> system as in claim 1, wherein said feature target selection module <u>selects</u> is operable to <u>select</u> a first set of secondary targets associated with a first feature and <u>also</u> a second set of secondary targets associated with a second feature.
- 14. (Currently Amended) A <u>target selection</u> system as in claim 1, wherein said primary target selection module <u>selects</u> is operable to <u>select</u> a first primary target associated solely with a first feature and <u>also</u> a secondary target associated solely with a second feature.
- 15. (Currently Amended) A <u>target selection</u> system as in claim 1, wherein said primary target selection module selects is operable to select a set of primary targets associated with a particular feature.
- 16. (Currently Amended) A countermeasure system for a vehicle, said countermeasure system comprising:
- at least one object detection sensor <u>for</u> generating object detection signals associated with a plurality of objects;
- a feature target selection module <u>for</u> selecting secondary targets from said plurality of objects and associating said secondary targets with a plurality of respective features;
- a primary target selection module <u>for</u> selecting primary targets from said secondary targets and associating each of said primary targets with a single respective concentrated feature; and

a controller <u>for</u> performing at least one countermeasure in response to said primary targets.

17. (Currently Amended) A <u>countermeasure</u> system as in claim 16, <u>said</u> <u>countermeasure system</u> further comprising:

a path prediction module <u>for</u> determining a resultant predicted future path of [[the]] <u>said</u> vehicle and an associated path confidence level; and

a diagnostic module <u>for</u> determining positions of said plurality of objects in response to said resultant predicted future path and said path confidence level;

wherein said feature target selection module selecting is operable to select said secondary targets in response to [[said]] the determined positions.

18. (Currently Amended) A target selection system for a vehicle, said target selection system comprising:

at least one object detection sensor <u>for</u> generating object detection signals associated with a plurality of objects;

- a plurality of vehicle state sensors for generating vehicle state signals;
- a path-tracking module for generating a path-tracking signal;

a path prediction module <u>for</u> generating at least one path-prediction signal in response to said vehicle state signals, said path prediction module <u>determining being operable to determine</u> a resultant predicted future path of [[the]] <u>said</u> vehicle and an associated path confidence level in response to said at least one <u>path-prediction path-prediction</u> signal and said <u>path-tracking path-tracking</u> signal; and

a controller <u>for</u> determining threat of each of said plurality of objects in response to said object detection signals and selecting at least one primary target for a plurality of features in response to said resultant predicted future path, said associated <u>path</u> confidence level, and said threat.

19. (Currently Amended) A <u>target selection</u> system as in claim 18, wherein: said controller, [[in]] <u>for</u> selecting said at least one primary target, <u>determines</u> is <u>operable</u> to <u>determine</u> a highest threat object of said plurality of objects for said plurality of features[[,]]; and

said controller performing is operable to perform a countermeasure in response to said primary target.

- 20. (Currently Amended) A <u>target selection</u> system as in claim 18, wherein said controller comprises:
- a feature target selection module <u>for</u> selecting secondary targets from said plurality of objects and associating said secondary targets with said plurality of features; and
- a primary target selection module <u>for</u> selecting said at least one primary target from said secondary targets and associating each of a plurality of concentrated features with said at least one primary target.